

50X1-HUM

Description and Specifications
of Models MB-4, MB-4T and PB-1

Textile Machines

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CONFIDENTIAL**MB-4 AND MB-4T WINDING MACHINES**

The winding machines are used for rewinding cotton yarn from ring and mule packages on bobbins.

The MB-4 machine is used for rewinding yarn on cones with 11°30' cone angle for warp machines.

The MB-4T machine is used for rewinding yarn on cones with 18°30' cone angle for machines of the tricot industry.

The machines are two-sided, consists of 10 sections, with 10 spindles in each. Depending on the operating conditions, the winding machines can be assembled of fewer sections.

The yarn which is rewound from packages goes through a thread cleaner and braking device, and in the MB-4T machines, through an attachment for treating the thread with paraffin. For driving the bobbins and distributing the thread, special plastic winding rollers with spiral grooves are provided. For forming cone-shaped bobbins, rollers with an alternate pitch of groove are used.

The machines are equipped with automatic stops which are actuated in the event of thread breakage or runout of a package, sphere formers (sferoobrasovatel'), and mechanisms for increasing the conicity on the MB-4 and MB-4T machines.

The drive is provided by three individual motors. The small 0.4-kilowatt motor drives the shafts of the automatic stops and the conveyer and serves to break off the current to the other electric motors in avoiding lamellar winding.

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Yarn is wound on paper cones.

The machine is installed on a cement floor and fastened with special bolts. During the installation, the machine is complemented with a push button control, magnetic starters, and texrope drives.

Specifications

	<u>MB-4</u>	<u>MB-4T</u>
Linear winding speed	up to 800 m/min	up to 700 m/min
Shape and size of bobbins	Conical 210x170x150 mm	Conical 210x150x150 mm
Electric motors (first and second):		
Power	2.2 kw	2.2 kw
Speed	1,450 rpm	1,450 rpm
Electric motor of low capacity:		
Power	0.4 kw	0.4 kw
Speed	950 rpm	950 rpm
Dimensions:		
Length	13,500 mm	13,770 mm
Width	1,200 mm	1,200 mm
Height	1,650 mm	1,650 mm
Weight	3,500 kg	3,600 kg

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PB-1 DUST EXTRACTING CYLINDER

The PB-1 dust extracting cylinder is used for removing dust, lint, and other small foreign matter from cotton coming from opening machines. The dust extracting cylinder is installed in the system of the opening aggregate.

The dust extracting cylinder consists of three basic parts: a screen cage, damper, and fan. The cage is separated by the damper into two parts. The fan creates a vacuum in the upper part of the cage which assures a good suction of cotton to the cylinder. With the rotation of the cylinder, the cotton is distributed in a fine layer throughout ^{the} ~~its~~ ^{of the cylinder} surface. This creates good conditions for the removal of dust, lint, and small foreign matter by means of an air stream.

The dust extracting cylinder is mounted on stands secured to the frames of a horizontal cylinder opener. It is driven by a belt drive from the blade cylinder of the horizontal cylinder opener.

Specifications

Productivity	up to 80 kg per hour
Diameter of screen cage	404 mm
Length of screen cage	1,070 mm
Diameter of fan (along blades)	336 mm
Diameter of fan exhaust pipe	230 mm
Speed of screen cage	95-100 rpm
Speed of fan	1,000-1,020 rpm
Volume of air drawn off per hour	1,000 square meters
Dimensions:	
Length along travel of product	575 mm
Width	1,605 mm
Height	2,248 mm
Weight	440 kg

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